

Docket No: F 744 C

COMBINED DECLARATION AND POWER OF ATTORNEY  
IN C-I-P APPLICATION

As a below named inventor, I hereby declare that: my post office address and citizenship are as stated below next to my name; that I verily believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

PLANAR FILTER AND MULTI-POLE ANGLE-CONNECTING DEVICE WITH A  
PLANAR FILTER

described and claimed in the foregoing specification; that this application in part discloses and claims subject matter disclosed in my earlier filed application No. 09/479,022, filed January 7, 2000; that I acknowledge my duty to disclose information of which I am aware which is material to the examination of this application, that, as to the subject matter of this application which is common to said earlier application, I do not know and do not believe that the same was ever known or used in the United States of America before my invention thereof or patented or described in any printed publication in any country before my invention thereof or more than one year prior to said earlier application, or in public use or on sale in the United States of America more than one year prior to said earlier application; that said common subject matter has not been patented or made the subject of an inventor's certificate issued before the date of said earlier application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months prior to said earlier application under 37 C.F.R. 1.56(a); and that no application for patent or inventor's certificate of this invention has been filed earlier than the following in any country foreign to the United States of America prior to this application by me or my legal representatives or assigns:

Country: Federal Republic of Germany, Application No. 299 02 505.5, filed February 12, 1999, the International Priority of which is claimed under 35 U.S.C. 119;

and in such other countries where applications may have been filed subsequently to the filing of said German application; the priority of said German application being hereby specifically claimed by me; that, as to the subject matter of this application which is not common to said earlier application, I do not know and do not believe that the same was ever known or used in the United States of America before my invention thereof or patented or described in any printed publication in any country before my invention thereof or more than one year prior to the date of this application, or in public use or sale in the United States of America more than one year prior to the date of this application, and that said subject matter has not been

patented or made the subject of an inventor's certificate issued in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months prior to the date of this application; that I acknowledge my duty to disclose information which is material to the examination of this application of which I am aware or became aware between the filing date of the prior application and the filing date of the continuation-in-part application under 37 CFR 1.56(a); that I have reviewed and understand the contents of the specification, including the claims, as amended by any amendment specifically referred to in the declaration; and that no application for patent or inventor's certificate on said invention has been filed by me or my representatives or assigns in any country foreign to the United States of America, except as follows:

NONE

And I hereby appoint HERBERT L. LERNER (Reg. No. 20,435), LAURENCE A. GREENBERG (Reg. No. 29,308), WERNER H. STEMER (Reg. No. 34,956) and RALPH E. LOCHER (Reg. No. 41,947) of P.O. Box 2480, Hollywood, Florida 33022-2480, my attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent Office connected therewith.

Wherefore I pray that Letters Patent be granted to me for the invention or discovery described and claimed in the foregoing specification and claims, and I hereby subscribe my name to the foregoing specification and claims, declaration, power of attorney and this petition.

I hereby declare that all statements made herein of my own knowledge are true and that all statement made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF FIRST INVENTOR:

MEINOLF DINGENOTTO

INVENTOR'S SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

Residence: SCHLOSS HOLTE-STUKENBROCK, GERMANY

Country of Citizenship: GERMANY

Post Office Address: BRUCKNERWEG 14  
D-33758 SCHLOSS HOLTE-STUKENBROCK  
GERMANY

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FULL NAME OF SECOND INVENTOR:

FRANK WALLMEIER

INVENTOR'S SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

Residence: LIPPSTADT, GERMANY

Country of Citizenship: GERMANY

Post Office Address: DELBRÜCKER WEG 23  
D-59558 LIPPSTADT  
GERMANY

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**STATEMENT CLAIMING SMALL ENTITY STATUS**  
**(37 CFR 1.9(d) & 1.27(c))-SMALL BUSINESS CONCERN****Docket Number:**  
**F-744****Applicant:** Meinolf Dingenotto, et al.**Filed:** Concurrently herewith**Title:** Planar Filter and Multi-Pole Angle-Connecting Device with a Planar Filter

I hereby state that I am

- ☐ the owner of the small business concern identified below:  
☒ an official of the small business concern empowered to act on behalf of the concern identified below:

**NAME OF SMALL BUSINESS CONCERN:** FILTEC Filtertechnologie für die Elektronikindustrie GmbH**ADDRESS OF SMALL BUSINESS CONCERN:** Ostenfeldmark 16,  
D-59557 Lippstadt, Germany

I hereby state that the above identified small business concern qualifies as a small business concern as defined in 13 CFR Part 121 for purposes of paying reduced fees to the United States Patent and Trademark Office, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time, or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby state that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention described in:

- ☒ the specification filed herewith with title as listed above.  
☐ the application identified above.  
☐ the patent identified above.

If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights in the invention must file separate statements as to their status as small entities, and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern, or organization having any rights in the invention is listed below:

- ☒ no such person, concern, or organization exists.  
☐ each such person, concern, or organization is listed below.

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

**NAME:** Georg Ickemeyer**TITLE:** Geschäftsführer**ADDRESS:** Ostenfeldmark 16  
59557 Lippstadt**SIGNATURE:** Georg Ickemeyer**DATE:** 22. 2. 2000

**STATEMENT CLAIMING SMALL ENTITY STATUS  
(37 CFR 1.9(f) & 1.27(b))--INDEPENDENT INVENTOR**Docket Number  
F-744

Applicant : Meinolf Dingenotto et al.  
Filed : Concurrently herewith  
Title : Planar Filter and Multi-Pole Angel-Connecting  
Device with a Planar Filter

As a below named inventor, I hereby state that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees to the Patent and Trademark Office described in:

- ☒ the specification filed herewith with title as listed above.  
☐ the application identified above.  
☐ the patent identified above.

I have not assigned, granted, conveyed, or licensed, and am under no obligation under contract or law to assign, grant, convey, or license, any rights in the invention to any person who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(c).

Each person, concern, or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

- ☒ No such person, concern, or organization exists.  
☐ Each such person, concern, or organization is listed below.

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b)).

Meinolf Dingenotto  
Meinolf Dingenotto

22. 2. 2000  
DATE

Frank Walmeier  
Frank Walmeier

22. 2. 2000  
DATE

### Calculation of time positions

When jumping to a specific position in a file, a calculation is performed to map the requested time position into a file sector position.

The file length in sectors and the recording length in hundreds of seconds are used to calculate an average recording rate in sectors per second. This factor is then applied to the requested time position, resulting in a corresponding sector position. The file position is set to this sector and then the DVR scans the file data until a data block header is found. The exact time position marker is retrieved from the header, and is compared with the requested time position.

If the difference between the found time marker and the requested time position is larger than one second, a new sector position is calculated based on the time difference and the previously determined file average sectors per second recording rate.

This algorithm is then repeated until the difference is less than one second. In all cases, no more than 10 repetitions are done, in order to limit the search in case of bad input file data (as when there are "holes" in the data stream due to lack of input signal during recording).

During fast forwarding and rewinding, a simpler approach is used in order to minimize the overhead. Then entering the FastForward or Rewind state, the average recording rate in sectors per seconds is calculated.

When skipping data in the file during winding, this rate is used to calculate the amount of sectors to skip.

The position is not iteratively adjusted as when performing a jump to a specific time position, as fast forwarding and rewinding is less depending on accurate positioning.

If the file contains less than five seconds of data at the point when fast forwarding or rewinding is initiated, a rate of 900 sectors per seconds is assumed for video data files and 25 sectors per seconds is assumed for audio-only (radio) files.